

In response to the Office Action mailed on April 23, 1999, Applicant respectfully submits the following amendments and remarks:

IN THE CLAIMS

Please cancel claims 3, 10 and 22. In addition, Please amend the claims as follows:

1. (Amended) A dual band radio receiver comprising:
a local oscillator configured to generate a Local Oscillator (LO) signal;
a first two way switching device responsive to a base band controller for switching between a first Radio Frequency (RF) signal received from a first front end receiver and a second RF signal received from a second front end receiver;
a first mixer device configured to receive said LO signal and [a] said first [Radio Frequency (RF)] RF signal included within a first band and responsively to output a first Intermediate Frequency (IF) signal;
a second mixer device configured to receive said LO signal and [a] said second RF signal included within a second band and responsively to output a second IF signal;
a second two way switching device responsive to said base band controller for switching between said first and second IF signals; and
wherein said local oscillator is configured to operate within a third band located between said first and second bands and is responsive to said base band controller.

2. (Amended) The dual band radio receiver of claim 1 further comprising first and second IF filters [and a switching device]

20

3 coupled between [thereto, wherein said first and second IF
4 filters are coupled to] said first and second mixer devices and
5 said second two way switching device, respectively.

8. (Amended) A system comprising:

a transmitter circuit; and

a dual band radio receiver coupled to said transmitter,
said dual band radio receiver including

a local oscillator configured to generate an LO
signal [;] ,

a first two way switching device responsive to a
base band controller for switching between a first Radio
Frequency (RF) signal received from a first front end receiver
and a second RF signal received from a second front end
receiver,

a first mixer device configured to receive said LO signal
and [a] said first RF signal included within a first band and
responsively to output a first IF signal,

a second mixer device configured to receive said
LO signal and [a] said second RF signal included within a
second band and responsively to output a second IF signal,

a second two way switching device responsive to
said base band controller for switching between said first and
second IF signals, and

wherein said local oscillator is configured to
operate within a third band positioned between said first and
second bands and responsive to said base band controller.

9. (Amended) The system of claim 7 further comprising first
and second IF filters [and a switching device] coupled between
[thereto, wherein said first and second IF filters are coupled

13
B3
4 to] said first and second mixer devices and said second two way
5 switching device, respectively.

13
B3
1 15. (Amended) In a dual-band radio receiver configured to
2 receive Radio Frequency (RF) signals within first and second
3 bands, a method for converting an RF signal into an IF signal,
4 the method comprising the steps of:

- 5 a) determining whether said RF signal belongs to one of a
6 first and a second bands; and
7 b) if said RF signal belongs to one of said first and second
8 bands, generating said IF signal in response to a base band
9 controller by mixing said RF signal with a LO signal belonging
10 to a third band located between said first and second bands.

B3
B4
1 21. (Amended) A method for providing a dual band radio
2 receiver, the method comprising the steps:

3 providing first and second front end receivers ;
4 providing first and second mixers;
5 providing a base band controller;
6 providing a circuit configured to determine whether an RF
7 signal input thereto from the first or second front end
8 receivers belongs to one of a first and second bands, said
9 circuit coupling said RF signal to one of said first and second
10 mixers if said circuit determines that the RF signal belongs to
11 one of a first and second bands respectively and is responsive
12 to said base band controller; and

13 coupling a local oscillator to said first and second
14 mixers, said local oscillator configured to generate signals
15 within a third band that is positioned approximately mid-way
16 between said first and second bands and wherein said local
17 oscillator is responsive to said base band controller.